Congreso Cientifico Internacional americano

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STORAGE

Boletin: 1

ARGENTINE REPUBLIC

CENTENARY OF THE REVOLUTION OF MAY

1810 - 1910

ARGENTINE SCIENTIFIC SOCIETY

INTERNATIONAL AMERICAN SCIENTIFIC CONGRESS

to be held in

BUENOS AIRES

from the

10th to the 25th of JULY 1910.

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International American Scientific Congress

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Angel Gallardo, D.Sc., C.E. — Academician; Professor of Zoology in the Faculty of Science; Professor of Zoology, Anatomy and Physiology in the Faculty of Medicine; President of the Biology Section.

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Santiago E. Barabino, C.E. — Keeper of the Records of the Argentine Scientific Society; President of the Committee of Propaganda.

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SECTION I.

ENGINEERING.

President
Luis A. Huergo, C.E.
General Secretary
Alfredo J. Orfila, C.E. — Professor in the Faculty of Science.

SUB-SECTION: AERONAUTICS.

Vice-Presidents
Horacio Anasagasti, C.E. — Vice-President of the Argentine Scientific Society.
Jorge Newbery, E.E. — President of the Argentine Aero Club.

Secretary

Major Waldino Correa — Second in Command, 1st Reg. of Engineers; Professor of Military Communications at the Military Academy.

Subjects.*

a) AEROSTATION.

1. Captive and free balloons.
2. Hydrogen producers, fixed and portable apparatus. Purifiers. Compressors.
3. Economic manufacture of hydrogen.
4. Military balloon parks and military aerostatic manoeuvres.
5. Kites.
6. Aeronautical applications of geodesy and photography.
7. Dirigible balloons. Suspension problems.
8. Meteorology.
9. Scientific instruments.
10. International scientific ascents.
11. «Ballons-sondes.»

b) AVIATION.

1. The theory of wings and propellers.
2. Aeroplanes.
3. Mixed solutions.
4. Special motors.
5. Propellers.

SUB-SECTION: ARCHITECTURE.

Vice-President

Mauricio Durrieu, C.E. — Professor of Prospective Drawing, Board of Works and Legislation, Faculty of Science.

Secretary

Luis P. Esteves — Professor of the History of Architecture, Faculty of Science.

Subjects.

1. Development of architectural art in the countries of America. Influences of American architecture and of that of the conquering countries in this development.
2. Modern tendencies of architecture among the American nations. Are they well designed?
3. Papers on important public and private buildings, or parts of such buildings.
4. Papers on new or established systems of construction.
5. Workmen's dwellings. The advisability of reserving spaces intended for economic dwellings, in the areas expropriated for city improvements.
6. Suitable dwellings for the working classes.
7. Earthquake-resisting construction; in particular economic methods.
8. General rules for building in districts liable to be destroyed by earth tremors.
9. Approved plans for the design of important buildings, public and private.
10. Theory and practice of architecture. Diplomas.
11. The best means of instructing the public in architecture.

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* See Article 10 of the Rules and Regulations.

SUB-SECTION: ELECTROTECHNICS.

Vice-President

EDUARDO LATZINA, C.E. — Professor of Turbine Construction, Faculty of Science; Vice-Director of the National Technical School.

Secretary

GERMAN NIEBUHR, E.E. — Professor of Electrotechnics in the National Technical School; Sub-Director of the German Transatlantic Electric Light Co. Works.

SUBJECTS.

1. Galvanic elements and accumulators.
2. Alternating and direct current motors and dynamos.
3. Steam, gas and water central stations.
4. Transformers and transforming stations.
5. Electric lighting.
6. Electric traction.
7. High and low tension mains.
8. Long distance transmission.
9. Telegraphy.
10. Telephony.
11. Measure of electricity; methods and instruments. Laboratories.
12. Electrometallurgy.
13. Electrotypy.
14. Safety devices.
15. Different applications of electrotechnics in general.
16. Systems of tariffs for electric energy.
17. General rules for the erection of electrical installations in cities.
18. Papers on electrical installations made in the Argentine Republic and other American countries.

SUB-SECTION: RAILWAYS.

Vice-President

PEDRO AGUIRRE, C.E. — Professor of Railways in the Faculty of Science; ex-Director of the Serrezuela to San Juan Railway Works.

Secretary

SIMON GOLDENHORN, C.E. — Director of Practical Works and Professor of Construction in the Faculty of Science; Engineer (1st class), General Board of Railways.

SUBJECTS.

a) WAY AND WORKS.

1. Road-bed (Construction of formation level).
2. Superstructure.
    a) Permanent way and accessories.
    b) Stations and buildings.
    c) Signalling.

b) TRACTION AND STORES.

1. Locomotives.
2. Rolling stock.
3. Couplings.
4. Brakes.

5. Workshops and stores.
6. Various.

c) TRAFFIC.

1. Train movement.
2. Commercial working.
3. Rates.
4. Statistics.
5. Various.

d) VARIOUS.

1. Secondary railways, mono-rails, cable railways, etc.

Special Subjects.

1. Protection of the track against sand drifts. Cleaning.
2. Employment of petroleum as fuel for locomotives.
3. Use of weight of whole train for adhesion (Renard and similar systems).
4. Increased capacity of vehicles.
5. Types of wagons for live stock.
6. Types of refrigerator vans.
7. Traffic over lines of different gauge. Exchange stations. Special types of wagons for this purpose.
8. Electrification of main lines (not including local or suburban).
9. Light railways as feeder lines (Decauville and similar systems).
10. Light lumber lines.
11. Working of state railways and company-owned railways.
12. Rating.
13. General system of railways in the Argentine Republic.

SUB-SECTION: AGRICULTURAL HYDRAULICS AND ENGINEERING.

Vice-President
Agustin Mercau, C.E. — Member of the Council and Professor of Agricultural Hydraulics, Faculty of Science.

Secretary
Jorge Dobranich, C.E. — Professor in the National Technical School and in the National Military College.

Subjects.

a) AGRICULTURAL HYDRAULICS.

1. Agricultural Hydrology. Meteorology.
2. Quality and quantity of water necessary for irrigation. Water gauge for measuring flow. Sluices and channels.
3. Source, main canal and distribution of the water.
4. Irrigation. Experimental stations. Means of increasing irrigation. Legislation.
5. Improvement of lands. Draining and desiccation.
6. River works. Alteration of flow and protection of banks. Hydrography.
7. Increase of hydraulic power.
8. Description of irrigation works carried out in the Argentine Republic.
9. Description of irrigation works in other American countries.

b) RURAL ENGINEERING.

Farm Buildings.

1. Organization and equipment of agricultural establishments.
2. Buildings for cellars, workshops, dairies, etc.
3. Farm houses and cottages.
4. Barns for harvests and produce.
5. Roads, bridges, pens, etc.
6. Rural legislation. Rural economics. Statistics.

Rural Mechanics.

1. Pumps. Boring machines.
2. Levelling machines and dredgers for the preservation of canals, etc.
3. Ploughing, sowing and reaping machines: means of transporting farm produce.
4. More elaborate machines of the same class.
5. Hydraulic, air, hot air, explosive and other motors.
6. Papers on hydro-electric installations in the Argentine Republic and other American countries.

Scientific Exploitation of Forests.

1. Felling; tools and means of transport.
2. Drying, preservation, sawing up, etc., of timber.
3. American woods as building material. Their resistance.
4. Cultivation and exploitation of yerba plantations.
5. Artificial reafforestation.
6. Legislation. Statistics.

Agricultural Economy.

1. Agricultural associations, syndicates and cooperative societies. Insurance.
2. Agricultural book-keeping. Valuation. Methods applicable to and used in the Argentine Republic and other American countries.

SUB-SECTION: HYGIENE AND CITY EMBELLISHMENT.

Vice-President

Carlos M. Morales, C.E. — Member of the Council of the Faculty of Science; Professor of Mechanics, idem; ex-Director of Public Works of the Municipality of Buenos Aires.

Secretary

Manuel R. Baliña, C.E. — Engineer to the General Board of Architecture, Municipality of Buenos Aires.

Subjects.

1. Protection against dust, smoke and noise.
2. Decentralization and regulation of noisome and noxious trades.
3. Parks and Avenues.
    - a) Parks, avenues and open spaces.
    - b) Parks and athletic grounds.
    - c) Gardens for children.
    - d) Garden schools.
    - e) Workmen's recreation grounds.
    - f) Race-courses, etc.

4. Arrangement of streets and avenues.
5. Public baths.
    a) On river banks and on the sea shore.
    b) In open spaces of inland towns.
6. Hospital Buildings.
    a) General.
    b) Hospitals and sanatoriums for tuberculosis.
    c) Special hospitals.
    d) Local and district hospitals.
7. Public wash-houses.
8. Public lighting.
9. Public abattoirs.

SUB-SECTION: MECHANICAL ENGINEERING.

Vice-President

Evaristo V. Moreno, C.E. — Chief of the Department of Machinery and Material, Board of Hydraulic Works; Professor of Machinery in the Faculty of Science.

Secretary

Ricardo J. Gutierrez, C.E. — Chief of the Machinery Section, Board of Ways and Communications.

Subjects.

1. Machine workshops.
2. Driving machinery. Steam generators. Gas producers.
3. Agricultural machinery.
4. Elevators and transporters.
5. Pumps.
6. Mechanical applications of electricity.
7. Mechanics applied to industries and manufactures.
8. Locomotives and other traction machines.
9. Metallurgy.
10. Use of metals in building.

Special Subjects.

1. Machines for working hard woods.
2. Traction engines for agricultural machinery.
3. Mill machinery.
4. Freezing plants.
5. Comparison of the different systems of motor power, for small, medium and large plants.
6. Utilization of Argentine fuels.

SUB-SECTION: INDUSTRIAL ENGINEERING.

Vice-President

Otto Krause, C.E. — Dean and Professor of Machine Construction in the Faculty of Science; Director of the National Technical School.

Secretary

Pedro Torre Bertucci, C.E. — Professor of Mechanical Technology in the Faculty of Science; Professor in the National Technical School.

SUBJECTS.

1. Industrial development of salt beds and borax deposits.
2. Methods and most suitable plants for the development of copper, iron, etc.
3. The proper exploitation of American woods and timber from the point of view of distillation and the improvement of cellulose and wood-pulp. Manufacture of extracts of bark and timber for tanning purposes.
4. The use of cereals in the manufacture of starch and glucose on a large scale.
5. Practical improvements in flour milling.
6. Freezing plants and the most suitable methods for the transport of frozen meat.
7. Wool, cotton, thread and silk manufactures.
8. Advantageous use of fibres of flax, palm, hemp, etc.
9. Sugar refineries.
10. Industrial Education.

SUB-SECTION: SANITARY ENGINEERING.

Vice-President
AGUSTIN GONZÁLEZ, C.E. — Engineer-in-Chief of the National Sanitary Works.

Secretary
ANTONIO PAITOVI Y OLIVERAS, C.E. — Inspector General of Exploitation, National Sanitary Works.

SUBJECTS.

1. Provision of potable water to the centres of population.
    - a) Reliable sources of supply.
    - b) Purifying and filtering.
    - c) Pumping and distribution.
    - d) Waterworks in the Argentine Republic.
    - e) Waterworks in other American countries.
2. Drainage of waste water and of rain.
    - a) Systems employed for collection of waste water and rain.
    - b) Final destination of liquid sewage. Different systems for purifying same.
    - c) Sewage systems in the Argentine Republic.
    - d) Sewage systems in other American countries.
3. Duties of waterworks and sewage systems.
4. Domestic drainage.
5. Heating of houses.
6. Collection, treatment and destruction of refuse.
7. Paving.
8. Construction of tunnels for the laying of mains, cables, etc.
9. Traffic.

SUB-SECTION: BRIDGES, ROADS, TUNNELS AND FOUNDATIONS.

Vice-President
VICENTE CASTRO, C.E.

Secretary
RODOLFO SANTÁNGELO, C.E. — Professor in the Faculty of Science; Engineer (1st Class), Department of Bridges and Roads.

Subjects.

a) BRIDGES.

1. Steel and iron.
2. Armoured cement.
3. Masonry and stone.
4. Wood.

b) CART ROADS.

1. Existing roads with earth surface.
2. The road of the future.
3. Construction and maintenance. Plantations.
4. Traffic.
5. The road and transport services: ordinary traffic. Industrial transport. Tramways and light railways.

c) TUNNELS.

1. Construction and maintenance.

d) FOUNDATIONS.

1. Foundations in general.

e) BUILDING MATERIALS.

1. Study of building materials.

Special Subjects.

1. Girders for iron and steel bridges.
2. Most advantageous types of metal work bridges for sparsely populated districts, having dear transport and a scarcity of suitable material for armoured bridges.
3. General network of roads in the Province of Buenos Aires and the approaches to the Federal Capital.
4. Most suitable types of automobiles for earth surfaced roads.
5. Tunnels through clay and water-bearing sands.
6. Survey and methods of binding loose earthworks.
7. Systems of foundations for buildings of great height.
8 From the point of view of physiology as from that of economy, what would be the maximum depth, in reason, to adopt in sinking hydraulic foundations with compressed air?

SUB-SECTION: PORTS, CANALS AND INLAND WATERS.

Vice-President

Santiago E. Barabino, C.E. — Ex-Inspector General of the National Waterworks.

Secretary

Eduardo Huergo, C.E. — Chief of the Department for Studying the River Paraná; late Chief Inspector of the Rosario Port Works.

Subjects.

a) PORTS.

1. Physical features of the Ocean on the coasts of America.
2. Protection of sea coasts.
3. Sand dunes; methods of fighting and utilizing them.

4. System of construction and arrangement of dock-building most suitable for our river and maritime ports.
5. Alluvial protection: maintenance of approach channels and docks of a port.
6. Docks and graving-docks.
7. Port semaphores. Day and night signals.
8. Port development.
9. Port approaches.
10. Ferry boats.
11. *Special Subject.* Widening of the port of Buenos Aires.

b) CANALS.

1. Navigation canals.
2. Maintenance of canals. Systems of propulsion.
3. *Special Subject.* In order to establish communication between the estuary of the Upper Plate and the River Paraná de las Palmas, whether it is preferable to construct a side canal, dredge a canal in the bed of the estuary itself, or deepen the canal?

c) RIVERS.

1. Navigable reaches.
2. Estuaries and deltas.

d) LAKES.

1. Utilization of inland waters.

SECTION II.

PHYSICS AND MATHEMATICS.

President
Marcial R. Candioti, LL.D., C.E.

General Secretary
José A. Medina, C.E. — Professor in the Universities of La Plata and Buenos Aires.

SUB-SECTION: MATHEMATICS.

Vice-President
Benjamín Sal, C.E. — President of the Department of Engineers of the Province of Buenos Aires; ex-Dean of the Faculty of Mathematics, La Plata.

Secretary
V. Anón Suarez, C.E. — Professor in the University of La Plata.

Subjects.

1. Rational notations for the vectorial system.
2. A system in Spanish of general mathematical notation, and especially for projective and descriptive geometry, pure and applied.
3. The convenience of the fusion of plane and space geometry in secondary education and of the greatest use possible of the principle of duality.

4. Curriculum of studies for the formation of the professorate in mathematics and physics.
5. Methodology of general mathematics.
6. Importance of the teaching of actuarial and commercial mathematics.
7. The use of derivatives and differentials in the explanation of natural phenomena.

SUB-SECTION: PHYSICS.

Vice-President
Manuel B. Bahia, D.Sc., C.E. — Academician of the Faculty of Science; Professor of Physics, idem.

Subjects.

1. Apparatus for demonstration in higher education.
2. Instruments of precision. Opportunity for the establishment of a central metrological office in South America.
3. Industrial photometry.
4. The use of graphic constructions for the demonstration and solution of problems.
5. Atmospheric electricity and lightning conductors.
6. Photography.
7. Telegraphy and Telephony.
8. Alternating currents.
9. Electric accumulators.
10. Methodology for the teaching of physics.

SUB-SECTION: ASTRONOMY.

Vice-Presidents
Francisco Porro di Somenzi, D.Sc. — Director of the Astronomical Observatory and Dean of the Faculty of Science and Mathematics, La Plata.
Prof. C. D. Perrine — Director of the Astronomical Observatory, Cordoba.

Secretary
Raul Gomez, C.E. — Astronomer at La Plata Observatory.

Subjects.

1. Organization of an office for the compilation of an Astronomical Almanac of the Southern Hemisphere.
2. Measurement of the arc of meridian in South America. The carryng out of resolutions passed at the Congress of Santiago, Chili.
3. Determinations of gravity in the Southern Hemisphere.

SECTION III.

CHEMISTRY.

President
Atanasio Quiroga, D.Sc.

General Secretary
Miguel Puiggari, D.Sc.

SUB-SECTION: GENERAL CHEMISTRY.

Vice-President

PEDRO J. PANDO, D.Sc. — Chief of the Municipal Chemical Laboratory, La Plata.

Secretary

JUAN A. SANCHEZ, D.Sc. — Sectional Chief of the Chemical Laboratory, Ministry of Agriculture.

SUB-SECTION: TECHNOLOGICAL CHEMISTRY.

Vice-President

Lieut. EMILIO M. FLORES.

Secretary

Prof. DAVID L. QUIROGA — Chief of the Chemical Laboratory, Faculty of Medicine.

General.

TEACHING.

SUBJECTS.*

1. The teaching of chemistry; physical, general, applied and technological.
2. Models of laboratories.

PHYSICAL CHEMISTRY.

SUBJECTS.

1. Energy. Matter. Evolution.
2. Fundamental laws and general rules which govern bodies under the conception of physical chemistry.
3. The state of bodies.
4. Radio-electrical activity.
5. Application of the principles of thermodynamics.
6. Static and dynamic chemistry.
7. On potential chemistry and its phases.
8. The path of experiments.
9. Application of physical chemistry to pure science, experimentally, and to industry. Photo-chemistry. Electro-chemistry.
10. Mathematical chemistry.

GENERAL CHEMISTRY.

SUBJECTS.

1. Methods to be employed in the study of inorganic and organic matter.
2. Chemical phenomena.
3. Elementary, simple, transmutable and compound bodies.
4. Systematization.
5. Classification and arrangement of the methods of obtaining bodies, according as to how they are applied.
6. Models, apparatus, instruments and processes of demonstration used in general and special instruction.

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* These subjects, as may be easily seen, embrace general topics, and in specifying them this was taken into account in order to assist those preparing papers on theoretical or applied problems, informing them at the same time that they need not restrict themselves to any particular branch. The section relating to medical science will be dealt with in the Medical Congress.

ANALYTICAL CHEMISTRY.

SUBJECTS.

1. Examination of the species, genus, family and groupings of bodies, using methodically or separately, all the means of demonstration comprised in the conception of quality and quantity.
2. Theories and bases of the action of bodies among themselves and with external dynamic agents, whatever may be the state in which they are.
3. Methods of analysis.
4. Application of chemical analyses to the discovery of new bodies and new scientific and industrial processes.

TECHNOLOGICAL CHEMISTRY.

SUBJECTS.

1. Is it advisable to study technological chemistry according to the order adopted for general chemistry or does it require the grouping of bodies in their natural state, or should there only be taken into account the class of products manufactured and the social state of the district or country where they are produced or may be consumed? Action of the Americans in this respect.
2. The great divisions of technological chemistry.
3. Characteristics of active commercial exchange corresponding to different nations.
4. Raw materials and manufacture. Unity of action which the Latin-American nations should develop.
5. Primary standards for the founding of factories.

Applied.

SUBJECTS.

1. Natural and distilled water.
2. Natural and artificial mineral waters.
3. Ice.
4. Production and use of cold for the preservation of organic matter.
5. Septic and antiseptic means for attaining the same object.
6. Conditions for export, import, receipt and distribution of the same.
7. Natural and artificial fuel.
8. Lighting. Heating. Smoke consumption.
9. Chemical manufacture of metalloids and substances manufactured from them.
10. Chlorin and hypochlorites. Bromine, iodine and their salts.
11. Sulphur, sulphates, sulphuric acid; acids in general and residual salts; sulphate of carbon.
12. Boracic acid, borax and derivatives.
13. Ammonia, ammoniacal salts and nitrogenous manures.
14. Phosphorus and phosphate manures.
15. Chloride and anhydrous carbon. Aërated waters.
16. Anhydrous silicate. Glass. Crystal. Soluble glass.
17. Chemical manufacture of metallic compounds and their by-products.
18. Compounds of sodium, potassium and calcium, natural and artificial. Salt deposits. Nitrate deposits.
19. Lime. Cement.
20. Compounds of common metals.
21. Compounds of precious metals.
22. Compounds of rare metals.
23. Sulphate of aluminium used for the purification of potable water. Alum. Pottery. Ultramarine colours.

24. Colours for the manufacture of paints, enamels, lacquers, etc.
25. Refractories and their use in incandescent lighting.
26. Manufacture of cyanurets.
27. Distillation of coal, wood, petroleum, resins and essences.
28. Manufacture of organic halogen compounds.
29. Manufacture of alcohol and common ether.
30. Manufactures subsidiary to the processes of fermentation.
31. Organic acids.
32. Oils. Greases. Glycerins. Soaps. Candles.
33. Lubricants.
34. Glucose and its affinities.
35. Sugar.
36. Starch. Feculas.
37. Pulps for the manufacture of paper.
38. Nitrocellulose and its affinities.
39. Tanning products.
40. Gelatiginous and albuminous products. Hides.
41. Milk and its derived products.
42. Casein. Gluten.
43. Manufacture of concentrated alimentary products.
44. Manufacture of rubber, guttapercha and kindred substances.
45. Animal and vegetable fibres: natural and artificial.
46. Natural and artificial organic colours.
47. Manufacture of paints, varnishes and kindred substances.
48. Camphor, resins and gums.
49. Manufacture of alkaloids and glucosides.
50. Manufacture of vegetable products. Yerba maté, tobacco, cocoa, etc.
51. Manufacture of articles intended for building in general and its decoration.
52. Manufacture of manure.
53. Manufacture of chemical products in general to be used in science, art and commerce.
54. Metallurgy by dry and wet processes and by the use of electricity.
55. Electro-chemistry applied to obtaining elementary and compound bodies; products of manufacture.
56. Simple, inorganic and organic explosives, and their combinations and mixtures.
57. Classification and preparation of explosives according to the purposes for which they are intended.
58. American factories. Models of factories. Instruments and Apparatus.

Special Section.*

SUBJECTS.

1. Selection and unification of the scientific methods employed by national, provincial and municipal offices in general, and in the Argentine Republic

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*This Section considers that in the description of the processes of analyses, to be made in accordance with what is mentioned in this part, and with a view to their being generally adopted, it is advisable to express not only the qualitative and quantitative determinations with their necessary methods, but also, taking into account their application, the conditions which have to characterize the *official sample*, its limits of classification, and when such may be the case relative conditions which may exist, to establish clearly the standard which must govern. This does not prevent the author of a paper specialising on a single detail or on the detailed observation of any one of the parts which go to make up the complete account of a special analysis.

in particular, intended for the examination of products, whatever may be their application, or for the specific examination which it may be necessary for them to make.
2. Laws, decrees, rules and official documents referring to the products included in the previous paragraph.

ANALYSIS APPLIED TO HYGIENE.

1. Air.
2. Soil.
3. Private dwellings and tenement houses.
4. Heating. Lighting.
5. Potable water.
6. Flour. Bread. Alimentary products.
7. Meat. Fish. Shell-fish. Birds. Eggs.
8. Milk. Butter. Cheese.
9. Fat. Oils.
10. Vegetables. Potatoes. Manioc.
11. Wine. Alcohol. Alcoholic liquors.
12. Fermented liquors: beer, cider, vinegar, etc.
13. Maté. Coffee. Tea. Chocolate. Chicory.
14. Sugar. Honey. Syrups. Sweetmeats.
15. Condiments and spices.
16. Preserves and bottled fruits.
17. Artificial colouring matter detrimental to health.
18. Artificial colouring matter not detrimental to health and which may be used in food stuffs.
19. Clothes.
20. Sewage.
21. Refuse.
22. Filtration of sewage.
23. Disinfection.

ANALYSIS APPLIED TO AGRICULTURE.

1. Models of laboratories.
2. Climate.
3. Water.
4. Soils.
5. Vegetation.
6. Uncultivated and cultivated produce of vegetation.
7. Vegetable and animal textiles.
8. Fatty substances.
9. Products of fermentation.
10. Manures. Ashes.

SECTION IV.

GEOLOGY.

Vice-President
EDUARDO AGUIRRE, C.E.

General Secretary

Cristobal M. Hickey, D.Sc.

SUB-SECTION: GEOLOGY.

Vice-President

Eduardo Aguirre, C.E.

Secretary

Jorge Magnin, D.Sc.

Subjects.

1. Subterranean hydrology.
2. American petroliferous deposits.
3. Artesian wells; well-boring plants.
4. American loess.
5. The relation of the American Tertiary.
6. American glacial formations.

SUB-SECTION: PALÆONTOLOGY.

Vice-President

Florentino Ameghino, D.Sc.

Secretary

Carlos A. Marelli, D.Sc.

Subjects.

1. Mesozoic vertebrates.
2. Relationship of the cretaceous fossil fauna and that of the tertiary period in North and South America.
3. Actual position of American paleobotany.
4. Development and evolution of primates in America.

SUB-SECTION: MINERALOGY AND MINES.

Vice-President

Enrique Hermitte, M.E. — Head of the Division of Mines, Geology and Hydrology, Ministry of Agriculture; Professor of Mineralogy in the Faculty of Agronomic and Veterinary Science.

Secretary

Leopoldo Sol, M.E. — Head of the Division of Mines and Lands.

Subjects.

1. Actual position of mining in America; its future; statistical data; principal mines exploited.
2. Exploitation of copper.
3. Exploitation of saltpetre.
4. Salt deposits.
5. Plants and methods for discovering supplies of water and mineral deposits generally.
6. Use of boring machines for ascertaining and testing water, petroleum, and other mineral deposits. Conditions for bores of great depth.
7. Use of electric motors and compressed air in the working of mines. Their employment in cases of insufficient supply of manual labour.

8. Economic methods of embankments and propping. Cases where wood cannot be used.
9. Working, applications and means of improving the output of mines.

Particularly, building and ornamental stone; mineral fertilizers: peat, lignite, bituminous coal; petroleum and its use in metallurgy and as an industrial fuel.

10. Application of electricity to metallurgy and the smelting of iron, copper, gold, etc.

Conditions of manual labour in mines. Measures tending to cope with its insufficiency. Legislation.

SUB-SECTION: SEISMOLOGY.

Vice-President
WALTER G. DAVIS, C.E.

Prof. C. D. PERRINE — Director of the Astronomical Observatory, Cordoba.
R. H. TUCKER — In charge of the Astronomical Observatory at San Luis, of the Carnegie Institution, Washington, D.C.
F. PORRO DI SOMENZI, D.Sc.

Secretaries
G. O. WIGGIN.
GALDINO NEGRI, D.Sc. — Chief of the Section of Seismology, La Plata Observatory.

SUBJECTS.

1. American seismological stations.
2. Seismic stations, instruments and methods of observation.
3. Advantages of uniformity of observations and reciprocal communications
4. Chronological frequency of American earth tremors.
5. Relation of earthquakes to other physical phenomena.
6. Determination of epicentres.
7. Weakest points of the terrestial crust and the suboceanic region.
8. Theoretical deductions on the earth's crust.
9. Velocity of the seismic wave.

SECTION V.

ANTHROPOLOGY.

President
FLORENTINO AMEGHINO, D.Sc.

General Secretaries
Professor RODOLFO SENET.
Professor LUIS M. TORRES.

SUB-SECTION: ANTHROPOLOGY AND PALEANTHROPOLOGY.

Vice-President
Francisco P. Moreno, F.R.G.S., D.Sc.

Roberto Lehmann Nitsche, Ph.D.
Christian Jakob, M.D.
Professor Rodolfo Senet.
Professor Luis M. Torres.
Fernando Thibon, D.Sc.

Subjects.

1. Antiquity of man in America, deduced from fossil remains.
2. How was the American continent populated?
3. Relationship of recent American races with those of other continents.
4. Relationship of the extinct American mammal fauna with the primates.
5. Relationship of the American monkeys with the cercopithecidæ, hominidæ and anthropomorpha, and the probable origin of man.
6. The problem of dwarfs in America.

Special Subjects.

1. The question of the precursors of man in Argentina. Homo pampaeus, Prothomo, Diprothomo, Tetraprothomo and Homo neogaeus; Homunculi.
2. The geological antiquity of the prehistoric deposits of Monte Hermoso.
3. Characteristics of the different fossil race remains found in the Pampa formation.
4. The races and tribes which actually inhabit tho Argentine, Bolivian and Paraguayan Chaco.
5. Relationship of the Tehuelches with other American Indians.
6. The most primitive races existing in Southern Brazil, Paraguay and the north-east regions of Argentina.

SUB-SECTION: ARCHÆOLOGY AND PALEOARCHÆOLOGY.

Vice-President
Roberto Lehmann Nitsche, D.Sc. — La Plata Museum.

Señorita Juliana Dilenius — Attached to the Ethnographic Museum, Faculty of Philosophy and Letters.
Professor Carlos Bruch — Chief of the Zoological Section of La Plata Museum.
Professor Benigno T. Martinez — Professor at the National College in Concepcion del Uruguay.
Father A. Larrouy.
Ramon J. Lassaga, Ph.D. — Minister of the Home Department, Government of the Province of Santa Fé.
Anibal Cardoso — In charge of the Numismatic Section of the Natural History Museum.

Subjects.

1. The greatest antiquity of man in America according to industrial traces.
2. The ancient stone industries prior to the Neolithic Age.
3. Distinct types of polished stone axes and their distribution in America.
4. Origin of the pre-Columbian civilization of North and South America.
5. Relationship of the Calchaquian civilization with those of Peru and the "pueblos" of North America.
6. American metallurgy in the pre-Columbian epoch.

Special Subjects.

1. The problem of the scoriæ and lavas in the neogene sedimentary formations of the Argentine Republic.
2. The most ancient traces of industries in the tertiary formations of Argentina.
3. The working of bone in prehistoric times in this part of America.
4. The extension of Incan industries and civilization.
5. Industries of the Guaranis and their area of geographical distribution.
6. The problem of the Bronze Age in Argentina.

SUB-SECTION: ETHNOGRAPHY.

Vice-President

Juan B. Ambrosetti — Director of the Ethnographical Museum of the Faculty of Philosophy and Letters.

Rafael Obligado, Ph.D.
Juan Alvarez, Ph.D.
Roberto Dabbene, D.Sc. — Chief of the Zoological Section of the National Natural History Museum.
Salvador Debenedetti — Attached to the Ethnographical Museum of the Faculty of Philosophy and Letters.
Eduardo A. Holmberg.
Colonel Luis Jorge Fontana — Director of the Museum, San Juan.
Filiberto Oliveira Cézar.

Subjects.

1. Arms and tools of existing indigenous tribes.
2. Death rites and religious ceremonies among the American indigenous races.
3. American folklore.
4. Migrations of the American people.
5. Relationship between the peoples of North and South America before the conquest.
6. The pottery industry among the American indigenous races.

Special Subjects.

1. Argentine ethnographic and ethnologic divisions.
2. Manners and customs of the Tehuelches.
3. Indigenous textile industries of Argentina.
4. Manners, customs and industries of the Indians of Patagonia and Tierra del Fuego.
5. Araucanian adornments and ornaments.
6. Navigation between the Indians of Tierra del Fuego and the ancient Guaranis.
7. Folklore of the peoples of the basin of the Plate and of Patagonia.

SUB-SECTION: LANGUAGES.

Vice-President

Samuel Lafone Quevedo — Director of La Plata Museum.

Carlos Spegazzini, D.Sc.
Juan Pelleschi, C.E.
Professor Matias Calandrelli — Late Rector of the Provincial College.
Professor Juan B. Selva — Vice-President of the National Normal School, Dolores.
Professor Ricardo Monner Sanz — Professor of Secondary Teaching.
Professor Pedro Scalabrini — Professor (pensioned) of the National School, Parana.

SUBJECTS.

1. Actual position of linguistic studies with regard to the American tongues.
2. Does any connection exist between the American languages and those of the Old World?
3. What connection is there between the native languages of North America and those of South America?
4. Picture and ideographic language. Hieroglyphs, petroglyphs, pictographs, symbols, quipus and other mnemonic systems in America.

SPECIAL SUBJECTS.

1. Linguistic divisions of Argentina.
2. Linguistic divisions of Southern Brazil, Uruguay and Paraguay.
3. Examination of the Patagonian and Fuegan languages.
4. What is it that is known of the languages spoken by the Calchaquians, Charruans and the Querandies?

SECTION VI.

BIOLOGY.

President
ANGEL GALLARDO, D.Sc., C.E.

General Secretaries
Professor AUGUSTO SCALA — Professor of Botany at La Plata University.
Professor JUAN NIELSEN — Professor of Natural Sciences and Chief of the Natural Science Laboratories in the National Central College.

SUB-SECTION: GENERAL BIOLOGY.

Vice-President
ROBERTO WERNICKE, M.D. — Late Academician of the Faculty of Medical Science; Honorary Professor, idem.

SUBJECTS.

1. Experimental studies on hybridization.
2. Arthropoda which serve as a vehicle for pathogenic germs.
3. Parasites of Man.
4. Parasites of the domestic animals and cultivated plants.

SUB-SECTION: ZOOLOGY.

Vice-President
FERNANDO LAHILLE, D.Sc. — Chief of the Zoological Section of the Ministry of Agriculture.

SUBJECTS.

1. General and local studies on the American fauna.
2. Utilization of the natural enemies of the locust and other plagues in order to combat them.

3. Exploitation of the maritime fauna.

SUB-SECTION: BOTANY.

Vice-President

Carlos Spegazzini, D.Sc. — Professor of Botany at the University of La Plata; Chief of the Section of Vegetable Biology, Ministry of Agriculture.

Subjects.

1. General and local studies on the American flora.
2. American medicinal plants.
3. Plants employed in manufactures and their use.

SECTION VII.

GEOGRAPHY AND HISTORY.

GEODESY, TOPOGRAPHY AND CARTOGRAPHY, PHYSICAL GEOGRAPHY. BIOLOGICAL GEOGRAPHY. DESCRIPTIVE AND HISTORICAL GEOGRAPHY ECONOMIC AND SOCIAL GEOGRAPHY. EXPLORATIONS. TEACHING OF GEOGRAPHY AND NOMENCLATURE. APPLIED GEOGRAPHY AND ANTHROPOGRAPHY.

President

Francisco P. Moreno, F.R.G.S., D.Sc.

Vice-President

Walter G. Davis, C.E. — Director of the Argentine Meteorological Office; Professor of Meteorology at the Faculty of Agronomy and Veterinary Science.

Francisco Porro di Somenzi, D.Sc. — Director of the Astronomical Observatory of La Plata.

Fernando Lahille, D.Sc. — Chief of the Zoological Section of the Ministry of Agriculture; Professor in the Normal School of Professors.

Santiago Roth, D.Sc. — Sectional Chief of La Plata Museum; Professor of Physical Geography at the University of La Plata.

Gunardo Lange, C.E.

Alejandro Rosa — Director of the Mitre Museum.

Enrique Peña — President of the Board of American History and Numismatics.

José León Suarez, D.C.L. — Chief of the Division of Live Stock and Zoology of the Ministry of Agriculture.

General Secretaries

Señora Elina Gonzalez A. de Correa Morales — Professor of Geography in the Normal School for Girls.

Enrique Wolff, C.E. — Chief of the Hydrometric Section of the Argentine Meteorological Office.

Luis M. Torres — Professor at the University of La Plata.

Clemente Onelli — Director of the Zoological Gardens of the City of Buenos Aires.

José Marco del Pont, D.Sc. — Secretary to the Board of American History and Numismatics.

Alfredo Pedrocchi, Ph.D. — Vice-Director of the Superior School of Commerce.

Subjects.

1. Rapid and economic methods for making geographical maps in America.
2. Summary of the development of geographical knowledge of the continent of America and adjacent islands up to 1810.
3. Summary of the development of geographical knowledge of the continent of America and adjacent islands between 1810 and 1910.
4. Summary of the geographical knowledge of Spanish America between 1810 and 1825.
5. Geographical data concerning the vice-royalties of the River Plate and of Peru. The captaincy-general of Chile during the War of Independence. Distribution and resources of the population and means of communication.
6. Influence of geographical conditions in the formation of the existing nations in America and their economic, political and social ties.
7. The advantages and value of the geographical conditions of the Argentine Republic.

In addition the Committee of this Section will be pleased to receive papers either on other general subjects or those which are comprised in the different subsections, in the programme of which already figure the following:

Temperatures of the Argentine Republic compared with those of the other countries of the world. The climate of the Argentine Republic and the basin of the River Plate. Data concerning icebergs in the Southern Atlantic. Walter G. Davis.

Meteorology of South America in relation to Antarctic conditions. R. C. Mossman, F.R.S.E.

Bathymetric and meteorogical surveys in the seas surrounding the Argentine coasts. Investigations into Argentine zoögeography and its economic applications. Fernando Lahille.

The pampas of Argentina. Santiago Roth.

First century of the geographical history of the Argentine coasts. Father. V. Larrouy.

The ports and anchorage between Buenos Aires and Cape Pilar and their use in accordance with the geographic-economic conditions of the regions they serve Emilio J. Beltrame.

The topographic and geological map of the Province of Buenos Aires. Value of political and natural frontiers in South America. Summary of the geographical knowledge of Argentina from the time of its discovery down to the present day. Organization of the survey of Argentina and her natural resources. F. P. Moreno.

Hydrometric surveys in the Argentine Republic. Gunardo Lange and Enrique Wolff.

Observations on the distribution of the ancient glaciers and their deposits in the northern and central regions of the Argentine Andes. Hans Keidel.

Surveys over the glacial region of the barrier of the Juncal snow peak (Cordillera de los Andes). R. Heibling, F. Reichert and F. Bade.

Argentine cartography. Economic and military value of the region of San Blas Bay (Argentine Atlantic Coast). Ulrico Greiner.

Phytogeography of the upper Mendoza Cordillera. Brief account of the phytogeography of the Province of Buenos Aires. Lucien Nhauman Merk.

Systematic survey of the glaciers of the Aconcagua. N. Besio Moreno and R. Gomez.

Medical geography of the Argentine Republic. Clemente Onelli.

SECTION VIII.

ECONOMICS AND STATISTICS.

President
Estanislao S. Zeballos, LL.D.

General Secretaries
Alcides Calandrelli, D.Sc.
Mariano Molla Villanueva, M.D.

SUB-SECTION: ECONOMICS IN GENERAL.

Vice-President
Adolfo E. Davila, LL.D. — Editor-in-Chief of *La Prensa;* ex-National Deputy.

SUB-SECTION: AGRARIAN STATISTICS.

Vice-President
Emilio Lahitte, D.Sc. — Director of the Department of Rural Statistics, Ministry of Agriculture.

Subjects.

1. Statistics considered as a *science* and as a *method.* Their application to rural economics.
2. Argentine agricultural statistics in the study of national economy: principles which have to be understood to determine the economic value of the factors which concur in developing public wealth.
3. Agricultural statistics in the principal grain-producing countries. Scientific arrangement. Method.
    a) Their influence in public administration.
    b) On the international migratory movement.
    c) On the wages of urban and rural manual labour.
    d) On cereal production and commerce.
4. International agricultural statistics. Practicability of their realization. Programme of the International Institute of Agriculture in Rome.
5. Universal agricultural statistics. World production of cereals. "Distribution and Consumption" of the annual harvests during the last decade.

SUB-SECTION: COMMERCIAL AND INDUSTRIAL STATISTICS.

Vice-President
Ricardo Pillado — Director of the Department of Commerce and Industry of the Ministry of Agriculture.

Subjects.

1. Most efficient methods to be uniformly applied throughout the Republic.

SUB-SECTION: STATISTICS OF POPULATION, INCLUDING THOSE OF PUBLIC EDUCATION.

Vice-President
  Alberto B. Martinez — Director of the Statistical Department of the Municipality of the Federal Capital.

Subjects.

1. General results.
2. Most efficient methods to be applied throughout the Republic.

SECTION IX.

MILITARY SCIENCE.

President
  Brig.-Gen. Pablo Riccheri.

General Secretaries
  Bt. Lt.-Col. Julio Chipont — General Staff.
  Maj. Luis E. Villanueva — Sub-Director of the School for Non-commissioned Officers.
  Lt. Rodrigo Amorortu.

SUB-SECTION: ENGINEERING.

Vice-President
  Col. Luis J. Dellepiane.

Secretary
  Capt. Juan Iturbide.

A. AERONAUTICS.

Vice-President
  Maj. Waldino Correa.

Subjects.

1. Captive balloons; their use in war.
2. Hydrogen producers most suitable for field use.
3. The most practical form for the dirigible balloon to take; its use in war.
4. Aviation applied to war.
5. Formation of corps of aeronauts and aviators.

B. CONSTRUCTIONS.

Vice-President
  Lt.-Col. Daniel Fernandez — Chief of the Fifth Dept. of Military Constructions at the War Office.

Subjects.

1. Type of barracks for each arm of the service in the different regions of America. Building materials suitable for each one of these types, having regard to safety, convenience and economy.

C. FORTIFICATIONS.

Vice-President
Col. Andrés E. Rodríguez — Late Director of the National Military College.

Subjects.

1. Surveys for plans of sea fortifications. Coast fortifications.
2. Inland fortifications. Fortresses in mountainous regions.
3. Construction materials for the different works.
4. Working tools and wagons suitable for companies of sappers. Transport of the same in mountainous country.

D. WAYS AND COMMUNICATIONS.

Vice-President
Col. Gerardo Aranzadi — Late Director of the Transport Department.

Subjects.

1. American railways from the point of view of the transport of troops.
2. Network of railways most suited to link up the different countries.
3. Light railways; their construction and rapid extension before and during war.
4. Wagon roads: their place in each country and junction with those of the different countries.

E. GEODESY.

Vice-President
Lt.-Col. Arenales Uriburu — Late Second in Command of the Regiment of Railway Engineers.

Subjects.

1. Triangulation in the different American countries.
2. Form and property of the symbols for triangulation.
3. Union of international lines in triangulations.
4. Advantages of carryng out works which at the same time will contribute to the knowledge of the true form of the earth.

F. MINES.

Vice-President
Lt.-Col. Belisario Villegas — Col.-in-Ch. of the 4th Engineers.

Subjects.

1. Employment of military mines in field war and in sieges.
2. Laying out of a plan of mines and counter-mines applicable to a particular case.

G. BRIDGES.

Vice-President
Maj. Carlos González — Director of the Electric Light Works at the Campo de Mayo; late Chief of the Section of Geodesy General Staff.

Subjects.

1. Bridge materials for open and mountainous country.
2. Are mountain bridges indispensable as part of a baggage train?
3. What is the maximum width, depth, and velocity of current over which temporary bridges may be thrown across American rivers? Types of such bridges.

H. TELEGRAPHY.

Vice-President
Maj. Enrique Mosconi — Second in Command of the 2nd Engineers.

Subjects.

1. Field apparatus for the electric telegraph in open and mountainous districts suitable for the different American countries.
2. Field apparatus for the heliograph.
3. Portable apparatus for wireless telegraphy. Telephony with or without wires. Suitable international systems.

SUB-SECTION: ARTILLERY.

Vice-President
Bt. Col. Ramon Ruiz.

Secretaries
Bt. Capt. Juan Beverina.
Lieut. Manuel G. Fernandez — Chief of the Section of Geodesy, Head Quarter Staff.

Subjects.

1. Given the topographical conditions of American territory, which of the two following points is the most important in field artillery: to lessen the weight of the guns at the cost of their ballistic power or to keep the ballistic power similar to that in Europe at a cost of the mobility?
2. Should the American armies possess heavy artillery for an army in the field? Which is the most suitable type, heavy guns, howitzers or mortars?
3. What system of targets is most suited to artillery practice? (Models of each may be presented).
4. *Horse Artillery:* Characteristics of horse batteries operating with an independent cavalry force, taking into account the peculiarities of American territory. Supply of ammunition. Method of practice.
5. *Mountain Artillery:* Brigading; the most suitable tactics for the battery and the brigade. What ought to be the superior unit of this arm in a campaign? Ammunition supply.
6. Night attack. Best means to ensure accuracy of aim.

SUB-SECTION: INFANTRY.

Vice-President
Col. Eduardo H. Ruiz — Inspector of Infantry.

Secretaries
Lt.-Col. Elias C. Paz — Attached to the General Inspection of Infantry.
Capt. Casildo Rosillo.

SUBJECTS.

1. The new tactical doctrine and the development of infantry attack.
2. General outlines for a scheme of infantry manœuvres.
3. Importance of the non-commissioned officer and the teaching he requires.
4. Period and method of instruction indispensable to infantry reserves.

SUB-SECTION: CAVALRY.

Vice-President
Col. Isaac de Oliveira Cézar — Inspector General of Cavalry; late Director of the Riding School.

Secretary
Maj. Benjamin T. Gonzalez — Second in Command of the 2nd Regiment of Cavalry.

SUBJECTS.

1. Peculiar characteristics of cavalry tactics in the field, operating in countries of a wide area and with but few means of communication. Degree of applicability to such countries of the rules laid down in European armies, for cavalry tactics. Do such require much fundamental alteration?
2. Type of cavalry horse best suited, in general, for American armies, considered from the point of view of the attention which can be given them in the field; their powers of resistance, size and speed.
3. Hippic sports applied to military training. Which of them should be encouraged?
4. Given the characteristics of modern warfare, which is the arm best suited to cavalry?
5. Composition of individual cavalry divisions most suited to their work in a field of battle, given the special features of the American countries.
6. Is it necessary in American countries to have organized in time of peace, independent divisions of cavalry? In the affirmative case, indicate measures for their instruction and employment in war.
7. Ought not the proportion in the organization of modern armies which cavalry forms to be varied for those of America compared with those of Europe, on account of their different services and the difficulties of a general to get possession of good maps to facilitate his task?

SUB-SECTION: TACTICS OF THE THREE ARMS.

Vice-President
Col. Cornelio Gutierrez — Director of the Military College.

Secretary
Capt. Francisco de Arteaga — Instructor at the Military College.

SUBJECTS.

1. Evolution of the tactics of the three arms in American armies from the year 1860 up to the present time. Comparative analytical study.
2. Is a general vanguard necessary for the preparation of a general engagement of large units?
3. Advances. Their execution.
4. Cooperation of the arms; most appropriate means of assuring it during the engagement; its influence on the evolution of tactical movements.

5. Should the engagement be preceded by a reconnaissance in force to allow the commander to ascertain exactly the strength and position of the enemy?
6. Flank and frontal attacks. Lessons from the Russo-Japanese war.
7. Should a decision be brought about by the bringing into action of a general reserve?
8. Change of position of artillery during a general engagement.
9. Night engagements. Lessons from the Russo-Japanese war.
10. Results arrived at from the Russo-Japanese war regarding the use of heavy artillery (calibres of more than 12 cm.).
11. Use of machine guns in an engagement.
12. Employment of scouting squadrons in the Russo-Japanese war.
13. Mountain tactics.
14. Probable plan of battle in an American war.

SUB-SECTION: STRATEGY.

Vice-President
Bt. Lt.-Col. Pascual Quiros — Sub-Director of the Military Academy.

SUB-SECTION: MILITARY ORGANIZATION.

Vice-President
Bt. Lt.-Col. Alfredo Freixa — Late Professor of Military Organization at the Military Academy.

Secretaries
Lt.-Col. Nicasio Adalid — Sub-Director of the Military College.
Bt. Capt. Emilio Maligne — Head Quarter Staff,

Subjects.

1. The best method of recruiting for obligatory service in South American countries.
2. Exemptions from obligatory service. Analytical study of the different causes of exception of the most advantageous nature to the country, taking into consideration the interests of the State and the social systems.
3. Participation of the military in politics.
4. Means of assuring a good recruiting of classes for the standing army, and the advisability of permanent service for non-commissioned officers.
5. Up to what rank should the proportionate representation of the branches of the service be maintained in filling vacancies on the list of commanding officers and officers of the standing army, taking into consideration its characteristic organization?
6. Is it better to organize our batteries of quick-firing guns in batteries of four or six pieces?
7. Would it be advantageous to organize a corps of mounted infantry in our country?
8. How should machine gun units be organized: on foot with the guns in advance or on horse with the guns carried on horseback?
9. Given the character of the ground in certain parts of our country, little suited for the manœuvring of horse artillery, would it not be advisable to have in these units of mountain artillery and rather increase these special batteries than decrease them?

SUB-SECTION: EQUIPMENT AND ORDNANCE.

Vice-President
Lt.-Col. Luis E. Vicat — Chief of the Ordnance Factory.

Secretaries
Maj. Pedro Uhart — Late Chief of the Section of Geodesy, General Staff.
Bt. Capt. Antenor Petit de Murat.

Subjects.

1. The best external and internal arrangement for projectiles and their fuses and cases, taking into account the object for which the projectiles of field and mountain artillery are intended, and also those of field howitzers and siege guns in our army.
2. Best arrangement of a brake for the carriages of field and mountain artillery, taking into account the needs of American armies and the conditions under which a campaign is likely to be developed.
3. Gun-sights for field use and the best apparatus for observing and correcting fire.
4. Infantry rifle and ammunition, taking into consideration the needs of American armies and the conditions under which a campaign is likely to be developed.
5. Best arrangement of a mobile park, in other words, a park for repairs, having for its object the repairing of artillery material in service with an army corps in the field, taking into account that each battery of artillery has already a field forge and numerous spare parts, and also taking into consideration the possibility of a campaign carried on at a distance from the principal bases of stores and supplies.

SUB-SECTION: EXPLOSIVES.

Vice-President
Lt.-Col. Dionisio C. Mesa — Col.-in-Ch. of the 1st Engineers.

Secretary
Lieut. Carlos R. Santillan.

Subjects.

1. Formula for a solid explosive in which the co-volume is reduced to the lowest possible minimum.
2. Most suitable explosive for cavalry from the point of view of safety in handling, transport and destructive effects.
3. Model of magazine, taking into account the nature of the explosives to be stored and the climatic variations of the place where it is situated.
4. Causes of alteration in the composition of explosives. General and special precautions to be taken to insure the proper condition being kept of stored explosives.
5. Hand-grenades and their use in war.
6. Powders and explosives whose component parts are such that in the act of combustion or explosion, they convert themselves completely into gases.
7. Comparative examination of modern powders. Their chemical effect on the life of guns and rifles.
8. Use of explosives in military mines.

SUB-SECTION: ADMINISTRATION.

Vice-President

Lt.-Col. Martin Rodriguez — General Secretary to the Department of the Quarter-Master-General to the Forces.

Secretary

Capt. Emilio Kinkelin — Professor at the Military Academy.

Subjects.

1. Is it preferable to keep mobilization stores at corps headquarters or in district magazines?
2. Type of field equipment best suited for the different arms.
3. General plan of the best system of military administration in the American armies.

SUB-SECTION: ARMY MEDICAL SERVICE.

Vice-President

Staff Surg. Nicomedes Antelo, M.D. — Chief of the Technical Section of the Army Medical Advisory Board; Surgeon-in-Chief of the Central Military Hospital.

Secretaries

Reg. Surg. Carlos M. Albarracin, M.D.
Reg. Surg. Alberto Levene, M.D.

Subjects.

1. Duty of sanitary pickets in an engagement.
2. Simulation of disease in the army before the award of imprisonment.
3. Radiology in the field sanitary service.
4. The fight against tuberculosis among the troops.
5. Prevention of fever in the army.
6. Bandage rolls for the individual soldier and the antiseptic rolls prepared for the treatment of the wounded.
7. Preliminary diagnosis of tuberculosis in the army.
8. Recruiting of invalids. Schools for invalids
9. War rations.
10. Teaching of military hygiene in the army.
11. Syphilis and venereal diseases in the service.
12. Boots for the infantry, cavalry and artillery.
13. Organization of a statistical service in military sanitation.
14. Duties of the Red Cross and volunteer ambulance societies in time of war.
15. Sunstroke among the troops.
16. Hygiene of the buccal cavity and teeth of the soldiers.
17. Temporary arrangements in the field sanitary service.
18. Tabloid medicines in field service.
19. Yerba maté in the diet of the soldier.

SUB-SECTION: MILITARY LAW.

Secretaries

Lieut. Rodrigo Amorortu, LL.D.
Lieut. Carlos Rodríguez Egaña, LL.D.

Subjects.

1. Military and legal study on compulsory service in the countries of America.

2. Is the intervention of the military in politics advisable?
3. What organization is best suited to courts-martial?
4. Scope of defence in military jurisprudence.

SUB-SECTION: AMERICAN MILITARY HISTORY.

Vice-President

Prof. José Juan Biedma — Director of the National Archives; Professor of Argentine History at the Military College.

Secretary

Capt. Guillermo Teobaldi, LL.D.

Subjects.

1. History of the Argentine Army.
2. Influence on civilization of the Argentine Army.
3. Critical, strategic and tactical examination of the continental campaign of San Martin.
4. Similar examination of that of Bolivar.
5. Scientific examination of the war of independence in the United States of North America.
6. Development and progress of military science in America.

SUB-SECTION: LOGISTICS.

Vice-President

Bt. Col. José F. Uriburu — Director of the Military Academy.

Secretaries

Bt. Capt. E. Weiss — Instructor at the Military College.
Bt. Capt. Carlos Funes — Head Quarter Staff.

SECTION X.

NAVAL SCIENCE.

President

Rear-Adm. Manuel J. Garcia Mansilla — Director of the Naval College.

General Secretaries

Lieut. Segundo R. Storni.
Lieut. Pedro Gulli.

SUB-SECTION: NAVIGATION.

Vice-President

Rear-Adm. Manuel J. Garcia Mansilla.

Secretary

Sub-Lieut. Eleazar Videla.

Subjects.

1. Modern methods of navigation. Altitudes. Rapid methods of calculation.
2. Application of the gyroscope to navigation.
3. New nautical instruments.

SUB-SECTION: HYDROGRAPHY.

Vice-President
Capt. Juan Pablo Saenz Valiente — Chief of the General Staff of the Ministry of Marine.

Secretary
Sub-Lieut. Jorge Gomez.

Subjects.

1. Special methods for the survey of large estuaries of shallow depth.
2. Sounding machines and profilographs.
3. System for standardizing the charting and buoying of coasts.
4. Plan for American international cooperation in the oceanographic study of the two Americas.
5. Tide surveys for the purposes of harmonic analysis.

SUB-SECTION: BALLISTICS.

Vice-President
Capt. Enrique G. Fliess.

Secretary
Lieut. Joaquin Armant.

Subjects.

1. New methods for determining the trajectory of projectiles through the air.

SUB-SECTION: ARTILLERY AND EXPLOSIVES.

Vice-President
Eng.-Capt. (ret.) Juan S. Grierson.

Secretary
Lieut. Julio Ayala Torales.

Subjects.

1. Preservation, storage and restoration of smokeless powders.
2. Comparison of wire-built and jacketed large artillery.

SUB-SECTION: NAVAL CONSTRUCTION.

Vice-President
Eng.-Capt. Gustavo Sundblad Roseti — Director of the Department of Naval Ordnance.

Secretary
Manuel Bianchi, C.E.

Subjects.

1. Most suitable propellers for rivers of shallow depth.
2. Use of the gyroscope to diminish listing.
3. Most modern methods for determining the resistance of careens.

SUB-SECTION: ELECTRICITY AND MOTORS.

Vice-President
Eng.-Capt. José E. Durand — Chief of the Department of Electricity of the Ministry of Marine.

Secretary
Juan A. Frichart, E.E.

Subjects.

1. Combustion motors applied to ships of large displacement.
2. Recent applications of electrical energy on board ships.

SUB-SECTION: RADIOGRAPHY.

Vice-President
Lieut.-Comm. Pedro L. Padilla — Inspector General of the Radiographic Service.

Secretary
Lieut. Carlos A. Braña.

Subjects.

1. Utilization of radiography for establishing an international system in America.
2. Recent advance in radiography.

SUB-SECTION: TORPEDOES.

Vice-President
Capt. Carlos G. Direaux.

Secretary
Sub-Lieut. Eduardo Harriott.

Subjects.

1. Improvements in the propulsion and steering of torpedoes.
2. Firing in shallow water.
3. Recent types of mines.

SECTION XI.

PSYCHOLOGY.

President
Horacio G. Piñero, LL.D.

General Secretaries
Victor Mercante, Ph.D. — Director and Professor in the Faculty of Pedagogy, University of La Plata.
Horacio P. Areco, D.C.L. — Professor in the Faculty of Law, University of Buenos Aires.

Pablo Cardenas, Ph.D. — Professor in the Faculty of Philosophy and Letters.

Rodolfo Senet, Ph.D. — Professor of Morbid Psychology in the University of La Plata.

Vice-President

Rodolfo Rivarola, D.Sc. — Academician; Member of the Council and Professor of Juridical Science in the University of La Plata, and in the Faculty of Philosophy and Letters, Buenos Aires.

SUB-SECTION: EXPERIMENTAL, GENERAL, AND PHYSIOGICAL PSYCHOLOGY. PSYCHOPHYSICS.

Vice-President

Carlos Rodriguez Etchart, LL.D. — Professor of Scholastic Legislation in the University of La Plata; Professor of Psychology in the Normal School for Teachers.

Brig.-Gen. Francisco de Veyga, M.D. — Inspector General, Army Medical Service; Professor of Forensic Medicine, Faculty of Medicine.

Nicolas Roveda, M.D. — Professor of Anatomy of the Nervous System at the University of La Plata.

Prof. Guillermo Navarro — Chief of the Psychological Studies in the Faculty of Philosophy and Letters.

Pastor Anarguiros, M.D. — Chief of the Psychological Laboratory in the Faculty of Philosophy and Letters.

Virgilio Duceschi, M.D. — Professor of Psychology in the University of Cordoba.

Luis Reyna Almandos, D.C.L. — Sub-Assessor, Governement of the Province of Buenos Aires.

Juan Vucetich — Director of the Department of Identification, Government of the Province of Buenos Aires.

Prof. Christian Jakob — Director of the Psychological Laboratory of the Faculty of Medicine.

Manuel Beatti, M.D. — Professor at the University of La Plata.

Clotilde Guillen, M.D. — Professoress of Psychology. Directress of the Normal School at Barracas al Norte.

Señorita Raquel Caamana — Professoress in the Normal School at Barracas al Norte.

Frank L. Soler, M.D. — Chief of the Physiological Laboratory in the Faculty of Medicine.

Subjects.

1. Organization of a system for the anatomical-histological study of the nerve centres (especially of the cerebral covering) and of the sense organs of the pure American aboriginal races.
2. Theories of emotion; their actual scientific value.
3. Psychophysiology and the graphic study of attention (experimental).
4. Present position of the doctrine of the localization of cerebral functions.
5. Influence of mental work on the organic functions.
6. The theory of neurones. New facts which may determine its revision. Present position.

FOR A FULL MEETING OF THE SECTION.

Man without brain. A study in anatomical biopathology. Professor C. Jakob, Chief of the Psychiatric Laboratory of the Faculty of Medicine.

PAPERS ANNOUNCED.

Comparative anatomy of the brain of the mammifers of the Argentine Republic, atlas and plates, etc. C. Jakob and Clemente Onelli.

Histological study of the spinal medulla and the spinal ganglia of the vertebrates. Dr. Nicolas Roveda.

Signification and form of the Sound-Colour Theory. Prof. Victor Mercante.

SUB-SECTION: INFANT PSYCHOLOGY, COMPARATIVE PSYCHOLOGY, PEDAGOGY, ANTHROPOMETRY, DIDACTIC PSYCHOLOGY.

Vice-President

Antonio Vidal, M.D. — Director of School Hygiene, National Department of Hygiene; Professor of Psychology in the Normal School for Teachers.

Carlos O. Bunge, LL.D., Ph.D. — Professor in the Universities of Buenos Aires and La Plata.
Clemente Onelli — Director of the Zoological Gardens.
Victor Mercante — Professor at the University of La Plata.
Rodolfo Senet — Professor at the University of La Plata and the Normal School for Teachers.
F. Guasch Leguizamon, Ph.D. — National Deputy; Professor of Psychology.
Prof. Pablo Pizzurno — Director of the Normal School for Teachers.
Prof. Leopoldo Herrera — Inspector of Secondary Teaching.
Juan B. Zubiaur — Member of the National Board of Education.
Ernestina Lopez, Ph.D. — Directress of the National College for Girls.
Jorge Mirey, Ph.D. — Professor of Psychology.

Secretary

P. Guagliaunone — Inspector of Secondary Teaching.

Subjects.

1. Psychological anthropology; anthropometry: use and application in schools˙ Presentation of a scheme applicable to the system of education, according to the nationality of the authors of papers.
2. Scholastic fatigue:
   - a) Determination in the individual; experimental methods; their application.
   - b) Determination in a class as a whole; methods of improvement applicable to a number of scholars.
   - c) Fatigue in the actual curriculum used in the Argentine schools (or of any other nation an author of a paper may select).
3. Measure of Intelligence. Qualification and quantification, classification and selection, with a view to educational purposes.
4. Mental retardation. Measure, classification, special education, with particular reference to Argentine scholastic systems (or of any other country).
5. Education of the will. Psychological foundation how constituted? What elements enter into it? How may it be employed in the actual school curriculum and in the social and political development of this or any other country?
6. The affective life in the child.

ANIMAL PSYCHOLOGY.

7. Studies in animal psychology. Its meaning and value. Its present position. How to further its study in the Argentine Republic (or any other country)?

SUGGESTED SUBJECTS.

8. Differential psychology of the sexes. The problem of co-education.
9. The crisis of puberty in the mental evolution of the pupil.
10. Educational value of comparative psychic statistics.

SUB-SECTION: SUBJECTIVE PSYCHOLOGY, HISTORY AND PHILOSOPHY OF PSYCHOLOGY, METAPHYSICS.

Vice-President

Alejandro Korn, Ph.D. — Professor of the History of Philosophy in the University of Buenos Aires.

Amadeo Gras Goyena, Ph.D. — Professor of Psychology in the Faculty of Law, University of Buenos Aires.
Camilo Morel, Ph.D. — Professor in the Faculty of Philosophy and Letters University of Buenos Aires.
Guillrrmo Keyper, Ph.D. — Director of the Institute of Secondary Teaching
Otto Schultse — Professor at the Institute of Secondary Teaching.
Carlos Zuberbuhler — Professor in the Faculty of Philosophy and Letters.
Alcides de los Llanos, Ph.D. — Professoress in the Normal School.
Sofia A. de Lopez, Ph.D. — Professoress in the Normal School.
Prof. Jorge Selva — Under-Secretary to the School Board, Government of the Province of Buenos Aires.

Secretary

Elias Martinez Buteler, Ph.D.

Subjects.

1. Value of the EGO in the schools of psychology.
2. The doctrine of evolution in psychology.
3. The forerunners of Darwin and Spencer.
4. Classification of the Sciences. Philosophical criterion and actual scientific criterion.
5. Kantian dualism; scientific parallelism and evolutionary monism as psychological scientific doctrines.
6. The ethical conceptions prior to actual psychology.
7. Metaphysical phenomena aud the new forms of energy: radiations, vibrations, emissions, etc.
8. The history of art considered according to the doctrine of evolution.
9. Psychology of Time. Conception of objective time and the sentimental perception of passing time. (Bergson. Perception and Conception of Time).

SUB-SECTION: PSYCHOLOGY APPLIED TO CRIMINAL JURISPRUDENCE, LAW, ETC.

Vice-President

Carlos Melo, Ph.D. — Professor of Psychology at the University of La Plata; Professor of the Philosophy of Law at the University of Buenos Aires.

Favio Lopez Garcia, Ph.D.

Osvaldo M. Piñero, LL.D. — Professor of Penal Law at the University of Buenos Aires.

Virgilio Tedin Uriburu, Ph.D. — Professor of Psychology at the Institute of Secondary Teachers.

Carlos Ibarguren, D.C.L. — Professor of Roman Law in the Faculty of Law and Social Sciences.

Carlos A. Becú, Ph.D. — Professor at the University of Buenos Aires.

Rafael Herreras Vega, D.C.L. — Professor in the Faculty of Law, University of Buenos Aires.

Matias Sanchez Sorondo, D.C.L. — Professor in the Faculty of Law, University of Buenos Aires.

Ricardo Cranwell, Ph.D. — Professor in the Faculty of Philosophy and Letters, University of Buenos Aires.

Rodolfo Moreno (junior), Ph.D. — Professor at the University of Buenos Aires.

Secretary

Luis Pascarella, Ph.D.

Subjects.

1. Genesis, 'raison d'être' and evolution of the juridical element.
2. Psychological foundations of incapacity in the family relations.
   - a) In Roman Law.
   - b) In Modern Law.
3. Psychological foundations of legitimacy.
4. Evidence from the psychological point of view.
5. Psycholcgical foundations of criminal responsability.

SUB-SECTION: PSYCHOLOGY APPLIED TO PSYCHIATRY AND MORBID PSYCHOLOGY.

Vice-President

José A. Esteves, M.D. — Professor in the Faculty of Medicine; Director of the National Lunatic Asylum.

J. M. Ramos Mejia, M.D. — Academician; Member of the Council and Professor in the Faculty of Medicine; President of the National Board of Education.

Lucas Ayarragaray, M.D. — Staff Doctor of the National Lunatic Asylum.

José Ingegnieros, M.D. — Professor of Psychology in the University of Buenos Aires.

Domingo Cabred, M.D. — Director of the Insane Asylum; Professor of Psychiatry in the Faculty of Medicine.

Amable Jones, M.D. — Staff Doctor of the Insane Asylum.

Julio Nougues, M.D. — Staff Doctor of the Insane Asylum.

Agustin J. Drago, M.D. — Physician to the Appelate Tribunals and of the National Lunatic Asylum.

Lucio V. Lopez, M.D. — Physician to the Criminal Lunatic Departmentf Police Headquarters.

Domingo S. Cavia, M.D. — Staff Doctor of the National Lunatic Asylum and School Medical Corps.

Helvio Fernandez, M.D. — Staff Doctor of the Insane Asylum.

Subjects.

1. Idiocy. Special psychological characteristics; psycho-physiological classification of idiots.

2. Psychology of the imbecile.
3. Psychological characteristics of mental weakness. Classification, responsability, etc.
4. Psychosis of affective life and of intellectual life.
5. Legal psychopathology of simultaneous insanity in two individuals, communicated by one to the other. Civil capacity and responsability of the actor and of the confidant, etc.
6. Insanity in woman and in man. Common and specific features belonging to psychology and the physiology of the sexes (means, work, society, etc.).

SUB-SECTION: COLLECTIVE AND SOCIAL PSYCHOLOGY, AND THE PSYCHOLOGY OF RELIGION.

Vice-Presidents

Antonio Dellepiane, LL.D. — Member of the Council and Professor of the Philosophy of Law in the Faculty of Law; Professor of Universal History in the Faculty of Philosophy and Letters, University of Buenos Aires.

Ernesto Quesada. LL.D., Ph.D. — Councillor; Professor of Sociology in the Faculty of Philosophy and Letters, University of Buenos Aires.

Juan A. Garcia, Ph.D. — Councillor; Professor of History and Sociology at the University of Buenos Aires.

Alfredo L. Palacios, LL.D. — Ex-National Deputy.

Leopoldo Maupas, Ph.D. — Free Professor in the Faculty of Law at the University of Buenos Aires.

Ricardo Levene, Ph.D. — Professor of Secondary Teaching.

Cesar Iglesias Paz, D.C.L. — Professor of Secondary Teaching.

Arturo Condomi Alcorta, D.C.L. — Professor of Secondary Teaching.

Secretary

Ernesto O'Dena, Ph.D.

Subjects.

1. The psychology of our crowds. Psychology of the actor, the conductor, the chorus, etc.
2. General psychology of the working class. Psychology of trade unions, etc.
3. Special psychology of our politicians. Psychological symptoms, individual characteristics, etc.
4. Psychology of religious phenomena (From the Sixth Congress of Psychology held at Geneva, August 1909).
5. Psychology of the South American peoples. Race, their particular and general place, cosmopolitanism, etc.
6. The individual and social side of psychology.
7. Beliefs, myths, customs and perceptions of the indigenous races of the New Continent, and the evolution and history of the American people

RULES AND REGULATIONS.

Art. 1. — The American International Scientific Congress will be held in the city of Buenos Aires from the 10th to the 25th of July of the present year. It shall limit itself to the discussion of those subjects already enumerated and included in each one of the eleven sections into which it has been sub-divided.

Art. 2. — The following persons are eligible to attend the Congress: — Official delegates representing the Federal Capital, Provinces, National Territories and Municipal Boroughs of the Argentine Republic; official representatives of the Governments of American countries; representatives of scientific societies or corporations, in Argentina or abroad, that may have anything in common with the aims of the Congress. In addition to the foregoing, any other persons who may wish to join the Congress may do so on payment of $5 (U.S.A.).

Art. 3. — Each person taking part in the Congress will receive a card accrediting him or her as a member. This card will admit the member to the sessions of the Congress, at the same time giving him or her the right to take part in the official and private excursions.

Tickets will be issued to ladies who wish to attend the conferences as spectators and take part in the official excursions, on payment of $1 (U.S.A.).

Art. 4. — Any further arrangements, together with a list of members attending the Congress, new subjects included, etc., will be published in subsequent Bulletins.

The order of the meetings, as well as the dates of the excursions, will be made known in due course.

Art. 5. — Each member shall note in his form of application the Section or Sections he wishes to join.

Any papers or discussions that members may wish to submit to the Congress, shall be forwarded to the General Secretary before the 20th of June.

The Executive Committee shall have sole right to admit or reject any further communications which may arrive late or which deal with subjects not included in the foregoing programme.

Art. 6. — There shall be two General Meetings, one at the opening of the Congress and the other at the close. Each Section shall also have two general meetings, one at the beginning and the other at the close of the sessions of the Sub-Sections. Five days shall be reserved for the discussion of papers submitted to the Congress.

The President of each Section shall establish in the order of the day of each session the subjects to be discussed. This order of the day shall be sent to the members of the respective Sections.

Spanish, German, French, English and Portuguese are the only languages that may be used at the meetings of the Congress.

Art. 7. — The President of the Executive Committee shall preside at the opening and closing sessions.

The President of each Section shall preside over the opening and closing sessions of their sections, and the vice-presidents over those of the sub-sections. The latter, however, may invite any member of the Congress to preside over a session.

Whenever feasible, the speeches and discussions of the sessions shall be taken in shorthand.

The most important questions discussed by the Congress shall be published in the daily newspapers.

Art. 8. — The Executive Committee of the Congress shall draw up the progamme of excursions and shall fix the amount each member must pay for taking part in excursions not of an official character.

Art. 9. — The Executive Committee shall continue its work until all subjects relating to the organization and realization of the Congress be definitely settled. It shall be aided in its labours by all the sections and the committee of publicity, as well as in the drawing up and publication of the General Report of the Proceedings after the close of the Congress.

Art. 10. — The subjects suggested under the different sections, mentioned in this Bulletin, do not preclude the addition of others which attending members may wish to present. Any such papers added will be published in future bulletins.

Art. 11. — The Executive Committee shall decide, in the last instance, all questions not provided for in these Regulations.

NOTE. All communications should be addressed, according to circumstances, to the President of the Executive Committee or to the President of the Committee of Propaganda, care of the Argentine Scientific Society, 269. Calle Cevallos, Buenos Aires.

LUIS A. HUERGO
President.

N. Besio Moreno — Enrique Marcó del Pont
General Secretaries.

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